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APPLICATION NO. FILING DATE FIRST NAMED INVENTOR

ATTORNEY DOCKET NO.

CONFIRMATION NO.

09/117,246

12/03/1998

DOLORES LUDEVID

50062/004001

3466

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09/22/2003

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EXAMINER

KALLIS, RUSSELL

ART UNIT

PAPER NUMBER

1638

DATE MAILED: 09/22/2003

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Please find below and/or attached an Office communication concerning this application or proceeding.

•	Application No.	Applicant(s)	
Office Action Summary	09/117,246	LUDEVID ET AL.	
	Examiner	Art Unit	
	Russell Kallis	1638	
The MAILING DATE of this communication appears on the cov r sheet with the correspondence address Period for Reply			
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	86(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).	
1) Responsive to communication(s) filed on 04 J	<u>une 2001</u> .		
2a) ☐ This action is FINAL . 2b) ☑ Thi	s action is non-final.		
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims			
4) Claim(s) <u>1-3,23-27 and 42-82</u> is/are pending ir	n the application		
4a) Of the above claim(s) is/are withdrawn from consideration.			
5) Claim(s) is/are allowed.			
6) Claim(s) is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) <u>1-3,23-27 and 42-82</u> are subject to res	striction and/or election requireme	ent.	
Application Papers	·		
9)☐ The specification is objected to by the Examiner			
10) The drawing(s) filed on is/are: a) □ accep	ted or b)⊡ objected to by the Exar	miner.	
Applicant may not request that any objection to the			
11) The proposed drawing correction filed on	•	ved by the Examiner.	
If approved, corrected drawings are required in reply to this Office action.			
12) The oath or declaration is objected to by the Exa	aminer.		
Priority under 35 U.S.C. §§ 119 and 120			
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).			
a)⊠ All b)□ Some * c)□ None of:			
1. Certified copies of the priority documents have been received.			
 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage 			
 3. Copies of the certified copies of the priori application from the International Burn * See the attached detailed Office action for a list of 	eau (PCT Rule 17.2(a)).	-	
14) Acknowledgment is made of a claim for domestic	priority under 35 U.S.C. § 119(e	e) (to a provisional application).	
a) ☐ The translation of the foreign language prov 15)☐ Acknowledgment is made of a claim for domestic			
Attachment(s)			
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal P	(PTO-413) Paper No(s) latent Application (PTO-152)	

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DETAILED ACTION

Upon further consideration and in view of Applicant's filing of new Claims 42-82 on June 4th, 2001 the claims have been re-restricted.

Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 1-3, 23, 42-50, 52-55, 57-64, 69-75, 77-82, drawn to oligonucleotides designed to enrich for lysine in a gamma-zein protein from maize by having repeating $(P-K)_n$ concatenation, and maize host cells and maize plants transformed with said recombinant nucleotide.

Group II, claim(s) 1-3, 23, 42-50, 56, 58-59, 61, 63, 69-72, 76, 77-78, 80-81, drawn to oligonucleotides designed to enrich for lysine in a reserve protein from a non-maize cereal plant, normally low in lysine, by having repeating (P-K)_n concatenation, and non-maize cereal host cells and non-maize cereal plants transformed with said recombinant nucleotide.

Group III, claim(s) 1-3, 23, 42-49, 51, 56, 58-59, 61, 63, 69-72, 76, 77-78, 80-81, drawn to oligonucleotides designed to enrich for lysine in a reserve protein from a legumenous or cruciferous plant, normally low in lysine, by having repeating (P-K)_n concatenation, and crucifer and legume host cells and crucifer and legume plants transformed with said recombinant nucleotide.

Group IV, claim(s) 1-3, 23, 42-49, 56, 58-59, 61, 63, 69-72, 76, 77-78, 80-81, drawn to oligonucleotides designed to enrich for lysine in a reserve protein from non-cereal, non-maize, non-legumenous, or non-cruciferous plant, normally low in lysine, by having repeating (P-K)_n concatenation, and non-cereal, non-maize, non-legumenous, or non-cruciferous host cells and non-cereal, non-maize, non-legumenous, or non-cruciferous plants transformed with said recombinant nucleotide.

Group V, claim(s) 24-27, 65-68, drawn to a lysine enriched polypeptide.

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The inventions listed as Groups I-V do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

Claim 1 is drawn to an oligonucleotide comprising at least one concantenation coding for a polypeptide with the formula (P-K)_n. Forney J. et al. GenBank Accession Number M19784 teach an oligonucleotide and the complement thereof, and thus the double stranded oligonucleotide encodes a repeating (P-K)_n concatenation. Claim 1 is not free of the prior art and, therefore, a special technical feature does not link the claims of the instant application.

Further, the invention of Groups I-IV are different than the invention of Group V because Groups I-IV, drawn to oligonucleotides designed to enrich for lysine in plants transformed therewith have a different chemical composition than the polypeptide of Group V. Groups I-IV differ from each other because they are drawn to different recombinant polynucleotides encoding different storage proteins and different transformed plants comprising said recombinant polynucleotide. For Example, Group I is drawn to a lysine enriched recombinant polynucleotide encoding a maize zein storage protein and a transformed maize plant, while Group II is drawn to a lysine enriched recombinant polynucleotide encoding a non-maize cereal storage protein and non-maize cereal plants, and Group III is drawn to a lysine enriched recombinant polynucleotide encoding a legumenous or cruciferous storage protein and transformed legumenous or cruciferous plants, and Group IV is drawn to a lysine enriched recombinant polynucleotide encoding a non maize, non-cereal, non-legumenous and non-cruciferous storage protein and transformed non maize, non-cereal, non-legumenous and non-cruciferous plants.

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Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Claims 1-3, 42-49, 58-59, 61, 63, 69-72, 77-78 and 80-81 link(s) inventions I-III and IV. The restriction requirement between the linked inventions is subject to the nonallowance of the linking claim(s), claims 1-3, 42-49, 58-59, 61, 63, 69-72, 77-78 and 80-81. Upon the allowance of the linking claim(s), the restriction requirement as to the linked inventions shall be withdrawn and any claim(s) depending from or otherwise including all the limitations of the allowable linking claim(s) will be entitled to examination in the instant application. Applicant(s) are advised that if any such claim(s) depending from or including all the limitations of the allowable linking claim(s) is/are presented in a continuation or divisional application, the claims of the continuation or divisional application may be subject to provisional statutory and/or nonstatutory double patenting rejections over the claims of the instant application. Where a restriction requirement is withdrawn, the provisions of 35 U.S.C. 121 are no longer applicable. *In re Ziegler*, 44 F.2d 1211, 1215, 170 USPQ 129, 131-32 (CCPA 1971). See also MPEP § 804.01.

Applicant is reminded that upon cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a petition under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Russell Kallis whose telephone number is (703) 305-5417. The examiner can normally be reached on M-F 8:30-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Amy Nelson can be reached on (703) 306-3218. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9306 for regular communications and (703) 305-3014 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0198.

Russell Kallis Ph.D. September 9, 2003

ASHWIN D. MEHTA, PH.D. PATENT EXAMINER